IN THE CLAIMS

1. (previously presented) A hollow pipe made of several different materials by continuous extrusion, wherein the innermost layer is a hollow plastic layer, outside of which there is an inner continuous-electrode layer, outside of which there is an electrically insulating layer, outside of which there is an outer continuous-electrode layer, the electrically insulating layer electrically separating the continuous-electrode layers from each other.

2. (previously presented) A pipe according to claim 1 for conducting gas indoors, wherein the continuous-electrode layers are connected electrically in such a way that the perforation of the continuous-electrode layers brings about an alarm.

3. (previously presented) A pipe according to claim 1, wherein the continuous-electrode layers are connected electrically in such way that a strain resulting from the loading of the pipe produces a warning signal.

4. (previously presented) In a pipe according to claim 1, wherein the pipe is used as a ventilation or a soil and waste pipe, the improvements comprising noise detecting means and counter-wave producing means, wherein the continuous-electrode layers are connected electrically in such a way that the outer continuous-electrode layer produces a sound that is opposite to a signal measured from inside the pipe so that a counter-wave produced in the outer continuous-electrode layer muffles noise occurring inside the pipe.

5. (previously presented) In a hollow pipe, the improvements comprising a hollow innermost layer, outside of which there is an inner continuous-electrode layer, outside of which there is an electrically insulating layer, outside of which there is an outer continuous-electrode layer, wherein the innermost layer is plastic of continuous extrusion, the electrically insulating layer is foamed plastic, and the electrically insulating layer electrically separates the continuous-electrode layers from each other.

6. (previously presented) A pipe according to claim 5, wherein the foamed plastic contains holes.

7. (previously presented) A pipe according to claim 5, wherein cells of the foamed plastic comprise a filler.

8. (previously presented) A pipe according to claim 6, wherein cells of the foamed plastic comprise a filler.

9. (previously presented) A pipe according to claim 5, wherein the continuous-electrode layers are connected electrically in such a way that a perforation of the continuous-electrode layers makes a short circuit.

10. (previously presented) A pipe according to claim 5, wherein the continuous-electrode layers are connected electrically in such a way that a strain from loading of the pipe changes a potential difference between the continuous-electrode layers.

11. (previously presented) A pipe according to claim 5, wherein the inner continuous-electrode layer, the electrically insulating layer and the outer continuous-electrode layer are formed simultaneously by continuous extrusion.

12. (previously presented) A pipe according to claim 11, wherein the foamed plastic contains holes.

13. (previously presented) A pipe according to claim 11, wherein cells of the foamed plastic comprise a filler.

14. (previously presented) A pipe according to claim 12, wherein cells of the foamed plastic comprise a filler.

15. (previously presented) A pipe according to claim 11, wherein the continuous-electrode layers are connected electrically in such a way that a perforation of the continuous-electrode layers makes a short circuit.

16. (previously presented) A pipe according to claim 11, wherein the continuous-electrode layers are connected electrically in such a way that a strain from loading of at least one of the layers changes a potential difference between the continuous-electrode layers.